MRC DiMeN Doctoral Training Partnership

UNIVERSITY of York

Multidisciplinary PhD opportunity in the fields of infectious diseases, gene regulations and molecular signalisation.

Application Dead line: 4th December 2025

Join us at the University of York to investigate the biology of African Trypanosomes, parasites responsible for Sleeping Sickness and Nagana, which costs the global economy over $4.5 billion annually.

This cutting-edge project sits at the intersection of infectious diseases, gene regulation, and molecular signalisation.

The Challenge: T. brucei relies heavily on swift post-transcriptional gene regulation for its survival and life cycle progression, as it lacks extensive transcriptional control.

Your Goal: You will use cutting-edge technology to elucidate the diversity, architecture, and regulation of biomolecular condensates (essential membraneless organelles). Our recent work indicates these condensates are key to the parasite's remarkable adaptability and transmission to diverse hosts.

Why Apply?

- Gain expertise in molecular mechanisms and advanced technologies (e.g. Kinome-wide RNAi library and CRISPR-mediated single-point mutagenesis, Volumetric-electron microscopy and Next-Generation Sequencing)
- Join a vibrant research environment at the University of York, the York Biomedical Research Institute and the labs of Dr. Mathieu Cayla & Dr. Pegine Walrad.
- Be part of a diverse community of PhD students across the North of England (Universities of Leeds, Liverpool, Newcastle, York and Sheffield) researching the major health problems facing the world today
- Fully funded project through the Medical Research Council (MRC) DiMeN DTP for 4yrs (tuition fees, stipend (£20,780 for 2024/25) and project costs).

Ready to make a discovery? Apply now to drive the next breakthroughs in fighting neglected tropical diseases! Please see the advert on Find A PhD. All applications are made via the application form accessed on the DiMeN website at www.dimen.org.uk

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